



Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200  
Fax 613 632-5246

D4653-3

Job Sheet 201958



Part No: D4653-3

Job Qty: 20 pcs

Part Name: Collar



Part Weight: 0 lbs

Status: New

Priority: Medium

Job Created: 10/17/19

Job Tracking No:

Created By: Marie Lajeunesse

Due Date: 11/8/19

Description:

Type: SOLD

Note: DWG REV A IPP REV:A NEW ISSUE 12-06-11 JLM VERIFIED BY:DD

Ship Via:

## Bill of Materials

## Job Routing

| Op No | Operation    | Qty       | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off |
|-------|--------------|-----------|------------|----------|-----------|---------|-----------------------|-----------|----------|
|       |              |           |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |          |
| 100   | Bandsaw - 1  | 20<br>pcs |            | 11/8/19  | 0.00      | 0.77    | Bandsaw - 1           |           | 19/11/19 |
| 105   | Doosan - B4B | 20<br>pcs |            | 11/8/19  | 0.04      | 20.83   | Doosan - 1 - B4B      |           |          |
| 110   | QC 2         | 20<br>pcs |            | 11/8/19  | 0.00      | 0.00    | QC 2 - 1              |           |          |
|       |              |           |            |          |           |         | QC 2 - 12             |           |          |
|       |              |           |            |          |           |         | QC 2 - 14             |           |          |
|       |              |           |            |          |           |         | QC 2 - 17             |           |          |
|       |              |           |            |          |           |         | QC 2 - 19             |           |          |
|       |              |           |            |          |           |         | QC 2 - 2              |           |          |
|       |              |           |            |          |           |         | QC 2 - 20             |           |          |
|       |              |           |            |          |           |         | QC 2 - 22             |           |          |
|       |              |           |            |          |           |         | QC 2 - 23             |           |          |
|       |              |           |            |          |           |         | QC 2 - 25             |           |          |
|       |              |           |            |          |           |         | QC 2 - 32             |           |          |
|       |              |           |            |          |           |         | QC 2 - 33             |           |          |
|       |              |           |            |          |           |         | QC 2 - 35             |           |          |
|       |              |           |            |          |           |         | QC 2 - 39             |           |          |
|       |              |           |            |          |           |         | QC 2 - 4              |           |          |
|       |              |           |            |          |           |         | QC 2 - 40             |           |          |
|       |              |           |            |          |           |         | QC 2 - 44             |           |          |
|       |              |           |            |          |           |         | QC 2 - 45             |           |          |
|       |              |           |            |          |           |         | QC 2 - 48             |           |          |
|       |              |           |            |          |           |         | QC 2 - 49             |           |          |
|       |              |           |            |          |           |         | QC 2 - 50             |           |          |
|       |              |           |            |          |           |         | QC 2 - 51             |           |          |
|       |              |           |            |          |           |         | QC 2 - 52             |           |          |
|       |              |           |            |          |           |         | QC 2 - 57             |           |          |
|       |              |           |            |          |           |         | QC 2 - 62             |           |          |
|       |              |           |            |          |           |         | QC 2 - 63             |           |          |
|       |              |           |            |          |           |         | QC 2 - 8              |           |          |
|       |              |           |            |          |           |         | QC 2 - 66             |           |          |

112 HAAS Saxis-B4B

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1BQC2

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|                                   |           |         |      |      |                           |  |
|-----------------------------------|-----------|---------|------|------|---------------------------|--|
| 120 QC 8                          | 20<br>pcs | 11/8/19 | 0.00 | 0.00 | QC 2 - 64                 |  |
|                                   |           |         |      |      | QC 2 - 65                 |  |
|                                   |           |         |      |      | QC 2 - 5                  |  |
|                                   |           |         |      |      | QC 2 - 71                 |  |
|                                   |           |         |      |      | QC 2 - 73                 |  |
|                                   |           |         |      |      | QC 2 - 69                 |  |
|                                   |           |         |      |      | QC 8 - 12                 |  |
|                                   |           |         |      |      | QC 8 - 14                 |  |
|                                   |           |         |      |      | QC 8 - 17                 |  |
|                                   |           |         |      |      | QC 8 - 20                 |  |
|                                   |           |         |      |      | QC 8 - 25                 |  |
|                                   |           |         |      |      | QC 8 - 3                  |  |
|                                   |           |         |      |      | QC 8 - 32                 |  |
|                                   |           |         |      |      | QC 8 - 33                 |  |
|                                   |           |         |      |      | QC 8 - 35                 |  |
|                                   |           |         |      |      | QC 8 - 39                 |  |
|                                   |           |         |      |      | QC 8 - 4                  |  |
|                                   |           |         |      |      | QC 8 - 44                 |  |
|                                   |           |         |      |      | QC 8 - 45                 |  |
|                                   |           |         |      |      | QC 8 - 49                 |  |
|                                   |           |         |      |      | QC 8 - 58                 |  |
|                                   |           |         |      |      | QC 8 - 8                  |  |
|                                   |           |         |      |      | QC 8 - 9                  |  |
|                                   |           |         |      |      | QC 8 - 68                 |  |
|                                   |           |         |      |      | QC 8 - 67                 |  |
|                                   |           |         |      |      | QC 8 - 1 (A)              |  |
|                                   |           |         |      |      | QC 8 - 47                 |  |
|                                   |           |         |      |      | QC 8 - 40                 |  |
|                                   |           |         |      |      | QC 8 - 52                 |  |
|                                   |           |         |      |      | QC 8 - 23                 |  |
|                                   |           |         |      |      | QC 8 - 57                 |  |
|                                   |           |         |      |      | QC 8 - 76                 |  |
|                                   |           |         |      |      | QC 8 - 61                 |  |
| 121 Handfinish - 1-1 Chemical-B4B | 20<br>pcs | 11/8/19 | 0.00 | 1.02 | Handfinish - 1 - 1 - B4B  |  |
|                                   |           |         |      |      | Handfinish - 1 - 2 - B4B  |  |
|                                   |           |         |      |      | Handfinish - 1 - 3 - B4B  |  |
|                                   |           |         |      |      | Handfinish - 1 - 4 - B4B  |  |
|                                   |           |         |      |      | Handfinish - 1 - 5 - B4B  |  |
|                                   |           |         |      |      | Handfinish - 1 - 6 - B4B  |  |
|                                   |           |         |      |      | Handfinish - 1 - 7 - B4B  |  |
|                                   |           |         |      |      | Handfinish - 1 - 8 - B4B  |  |
|                                   |           |         |      |      | Handfinish - 1 - 9 - B4B  |  |
|                                   |           |         |      |      | Handfinish - 1 - 10 - B4B |  |
|                                   |           |         |      |      | Handfinish - 1 - 11 - B4B |  |
|                                   |           |         |      |      | Handfinish - 1 - 12 - B4B |  |
|                                   |           |         |      |      | Handfinish - 1 - 13 - B4B |  |
|                                   |           |         |      |      | Handfinish - 1 - 14 - B4B |  |
|                                   |           |         |      |      | Handfinish - 1 - 15 -     |  |

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|                                 |        |         |      |      |  |                           |  |
|---------------------------------|--------|---------|------|------|--|---------------------------|--|
|                                 |        |         |      |      |  | B4B                       |  |
|                                 |        |         |      |      |  | Handfinish - 1 - 16 - B4B |  |
|                                 |        |         |      |      |  | Handfinish - 1 - 17 - B4B |  |
|                                 |        |         |      |      |  | Handfinish - 1 - 18 - B4B |  |
|                                 |        |         |      |      |  | Handfinish - 1 - 19 - B4B |  |
|                                 |        |         |      |      |  | Handfinish - 1 - 20 - B4B |  |
|                                 |        |         |      |      |  | Handfinish - 1 - 21 - B4B |  |
|                                 |        |         |      |      |  | Handfinish - 1 - 22 - B4B |  |
| 123 QC 7                        | 20 pcs | 11/8/19 | 0.00 | 0.00 |  | QC 7 - 10                 |  |
|                                 |        |         |      |      |  | QC 7 - 13                 |  |
|                                 |        |         |      |      |  | QC 7 - 14                 |  |
|                                 |        |         |      |      |  | QC 7 - 15                 |  |
|                                 |        |         |      |      |  | QC 7 - 17                 |  |
|                                 |        |         |      |      |  | QC 7 - 18                 |  |
|                                 |        |         |      |      |  | QC 7 - 19                 |  |
|                                 |        |         |      |      |  | QC 7 - 2                  |  |
|                                 |        |         |      |      |  | QC 7 - 28                 |  |
|                                 |        |         |      |      |  | QC 7 - 3                  |  |
|                                 |        |         |      |      |  | QC 7 - 30                 |  |
|                                 |        |         |      |      |  | QC 7 - 34                 |  |
|                                 |        |         |      |      |  | QC 7 - 36                 |  |
|                                 |        |         |      |      |  | QC 7 - 37                 |  |
|                                 |        |         |      |      |  | QC 7 - 41                 |  |
|                                 |        |         |      |      |  | QC 7 - 47                 |  |
|                                 |        |         |      |      |  | QC 7 - 48                 |  |
|                                 |        |         |      |      |  | QC 7 - 51                 |  |
|                                 |        |         |      |      |  | QC 7 - 58                 |  |
|                                 |        |         |      |      |  | QC 7 - 59                 |  |
|                                 |        |         |      |      |  | QC 7 - 60                 |  |
|                                 |        |         |      |      |  | QC 7 - 9                  |  |
|                                 |        |         |      |      |  | QC 7 - 68                 |  |
|                                 |        |         |      |      |  | QC 7 - 50                 |  |
|                                 |        |         |      |      |  | QC 7 - 67                 |  |
|                                 |        |         |      |      |  | QC 7 - 40                 |  |
|                                 |        |         |      |      |  | QC 7 - 24                 |  |
|                                 |        |         |      |      |  | QC 7 - 43                 |  |
|                                 |        |         |      |      |  | QC 7 - 61                 |  |
|                                 |        |         |      |      |  | QC 7 - 81                 |  |
|                                 |        |         |      |      |  | QC 7 - 76                 |  |
|                                 |        |         |      |      |  | QC 7 - 79                 |  |
| 130 Packaging 3-1 - Stock - B4B | 20 pcs | 11/8/19 | 0.00 | 0.00 |  | Packaging 3 - 1 - B4B     |  |
|                                 |        |         |      |      |  | Packaging 3 - 2 - B4B     |  |
|                                 |        |         |      |      |  | Packaging 3 - 3 - B4B     |  |
|                                 |        |         |      |      |  | Packaging 3 - 4 - B4B     |  |
|                                 |        |         |      |      |  | Packaging 3 - 5 - B4B     |  |
|                                 |        |         |      |      |  | Packaging 3 - 6 - B4B     |  |
|                                 |        |         |      |      |  | Packaging 3 - 7 - B4B     |  |
|                                 |        |         |      |      |  | Packaging 3 - 8 - B4B     |  |
|                                 |        |         |      |      |  | Packaging 3 - 9 - B4B     |  |
|                                 |        |         |      |      |  | Packaging 3 - 10 - B4B    |  |
|                                 |        |         |      |      |  | Packaging 3 - 11 - B4B    |  |
|                                 |        |         |      |      |  | Packaging 3 - 12 - B4B    |  |

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10/17/2019

[Dart Hawkesbury] Job Sheet - Lajeunesse, Marie

|                |           |         |           |                        |      |
|----------------|-----------|---------|-----------|------------------------|------|
|                |           |         |           | Packaging 3 - 13 - B4B |      |
|                |           |         |           | Packaging 3 - 14 - B4B |      |
|                |           |         |           | Packaging 3 - 15 - B4B |      |
|                |           |         |           | Packaging 3 - 16 - B4B |      |
|                |           |         |           | Packaging 3 - 17 - B4B |      |
|                |           |         |           | Packaging 3 - 18 - B4B |      |
|                |           |         |           | Packaging 3 - 19 - B4B |      |
|                |           |         |           | Packaging 3 - 20 - B4B |      |
|                |           |         |           | Packaging 3 - 21 - B4B |      |
|                |           |         |           | Packaging 3 - 22 - B4B |      |
|                |           |         |           | Packaging 3 - 23 - B4B |      |
|                |           |         |           | Packaging 3 - 24 - B4B |      |
|                |           |         |           | Packaging 3 - 25 - B4B |      |
|                |           |         |           | Packaging 3 - 26 - B4B |      |
|                |           |         |           | Packaging 3 - 27 - B4B |      |
|                |           |         |           | Packaging 3 - 28 - B4B |      |
|                |           |         |           | Packaging 3 - 29 - B4B |      |
|                |           |         |           | Packaging 3 - 30 - B4B |      |
|                |           |         |           | Packaging 3 - 31 - B4B |      |
|                |           |         |           | Packaging 3 - 32 - B4B |      |
|                |           |         |           | Packaging 3 - 33 - B4B |      |
|                |           |         |           | Packaging 3 - 34 - B4B |      |
|                |           |         |           | Packaging 3 - 35 - B4B |      |
|                |           |         |           | Packaging 3 - 36 - B4B |      |
| 140 QC 21 - SA | 20<br>pcs | 11/8/19 | 0.00 0.00 | QC 21 - SA - 21        | DAS  |
|                |           |         |           | QC 21 - SA - 70        | 21   |
|                |           |         |           | QC 21 - SA - 53        | 8-88 |

Part Op 110 - (QC2- Inspect parts off machine FAI/FAIB)  
 Descriptions: 120 - (QC8- Inspect parts - second check)  
 121 - (Chemical Conversion Coat per QSI005 4.1)  
 123 - (QC7-Inspect Chemical Conversion Coat)  
 130 - (Identify as per dwg & Stock Location: \_\_\_\_\_)  
 140 - (QC21- Final Inspection - Work Order Release)

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## Job BOM

| Part / Item   | Component Name           | Quantity      | Operation       | Container |
|---------------|--------------------------|---------------|-----------------|-----------|
| M6061T6R3.250 | 6061-T6 Round Bar 3.250" | 5 ft (.25 ea) | 100-Bandsaw - 1 |           |

$5226379 \times 12 = 3.20$   
 $5182520 \times 4 = 1.066$   
 $5172243 \times 3 = 0.70$   
 $5230645 \times 2 = 0.53$

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| Job Allocations              |                                 |                                    |                       |                          |
|------------------------------|---------------------------------|------------------------------------|-----------------------|--------------------------|
| Operation<br>100-Bandsaw - 1 | Component Part<br>M6061T6R3.250 | Required<br>5                      | Inventory<br>4        | Allocated<br>0           |
| Part Specifications          |                                 |                                    |                       |                          |
| Spec No                      | Description                     | Target/Tolerance                   | Limits                | Type<br>Special Comments |
| 1                            | Collar                          | 60.000Degrees $\pm 0.500$          | 60.500<br>59.500      | Angle, Reference         |
| 2                            | Collar                          | 0.865Inches $\pm 0.010$            | 0.875<br>0.855        | Diameter                 |
| 3                            | Collar                          | 0.812Inches $+ 0.001$<br>$- 0.000$ | 0.813<br>0.812        | Diameter                 |
| 4                            | Collar                          | 0.060Inches $\pm 0.030$            | 0.090<br>0.030        | Radius                   |
| 5                            | Collar                          | 0.166Inches $\pm 0.010$            | 0.176<br>0.156        |                          |
| 6                            | Collar                          | 0.832Inches $+ 0.005$<br>$- 0.000$ | 0.837<br>0.832        |                          |
| 7                            | Collar                          | 3.000Inches $\pm 0.030$            | 3.030<br>2.970        | Diameter                 |
| 8                            | Collar                          | 0.950Inches $\pm 0.010$            | 0.960<br>0.940        |                          |
| 9                            | Collar                          | 2.500Inches $\pm 0.030$            | 2.530<br>2.470        |                          |
| 10                           | Collar                          | 2.050Inches $\pm 0.030$            | 2.080<br>2.020        |                          |
| 11                           | Collar                          | 0.060Inches $\pm 0.030$            | 0.090<br><b>0.030</b> | Radius                   |
| 12                           | Collar                          | 0.300Inches $\pm 0.030$            | 0.330<br>0.270        |                          |
| 13                           | Collar                          | 0.130Inches $\pm 0.030$            | 0.160<br>0.100        | Radius                   |
| 14                           | Collar                          | 1.800Inches $\pm 0.010$            | 1.810<br>1.790        | Diameter                 |
| 15                           | Collar                          | 2.000Inches $\pm 0.030$            | 2.030<br>1.970        | Diameter                 |
| 16                           | Collar                          | 2.150Inches $\pm 0.030$            | 2.180<br>2.120        |                          |
| 17                           | Collar                          | 0.030Inches $\pm 0.030$            | 0.060<br>0.000        |                          |
| 18                           | Collar                          | 45.000Degrees $\pm 0.500$          | 45.500<br>44.500      | Angle                    |

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Entered: \_\_\_\_\_ Date: \_\_\_\_\_

# WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐



|                                                                                                                                                                                                                                                                                                                                                                                     |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                       |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------|--|-----------------|---------------|------------------|------------------|---------|-----------------------|---------------|-------------------|----------|-----------|-----------------|---------|--------|----------------------|------|--------|------------------------------|---------------------------------|--------------------|-------------------|---------------|-------------|-----------------|---------|------------|--------------|----------------|--|
| Job: _____<br>Part No. _____                                                                                                                                                                                                                                                                                                                                                        |                                 | <b>DISPOSITION</b><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                   | <b>DEPARTMENT/PROCESS</b><br>Skid-tube <input type="checkbox"/> Cross tube <input type="checkbox"/> Eng. (Non-AW) <input type="checkbox"/><br>Machining <input type="checkbox"/> Small Fab <input type="checkbox"/> Prod. Eng. Coord. <input type="checkbox"/><br>Large Fab <input type="checkbox"/> Finishing <input type="checkbox"/> Rec/Store/Packaging <input type="checkbox"/><br>Engineering <input type="checkbox"/><br>Water Jet <input type="checkbox"/><br>Supplier <input type="checkbox"/><br>Quality <input type="checkbox"/> |  | MRB (QS1042) <input type="checkbox"/> |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Date: _____                                                                                                                                                                                                                                                                                                                                                                         |                                 | Sequence #: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                   | QTY Affected: _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Disposition                           |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                    |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | Completed By                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                       |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| _____                                                                                                                                                                                                                                                                                                                                                                               |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | Lead hand / Supervisor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                       |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| _____                                                                                                                                                                                                                                                                                                                                                                               |                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                   | QC / QA Coordinator                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |                                       |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| <b>Root Cause</b><br>Operator <input type="checkbox"/><br>Manufacturing Process <input type="checkbox"/><br>Equip/Tooling <input type="checkbox"/><br>Handling/Preservation <input type="checkbox"/><br>Material <input type="checkbox"/><br>Product Improvement <input type="checkbox"/><br>Process Improvement <input type="checkbox"/><br>Human Factors <input type="checkbox"/> |                                 | <b>FAULT CATEGORY</b><br><table border="1"> <tr> <td>Pressure/Forced</td> <td>Contamination</td> <td>Power Loss/Surge</td> <td>Positioned Wrong</td> </tr> <tr> <td>Bending</td> <td>Misaligned/off center</td> <td>Folio/Program</td> <td>Outside Tolerance</td> </tr> <tr> <td>Crushing</td> <td>BOM/Route</td> <td>Grain Direction</td> <td>Drawing</td> </tr> <tr> <td>Cracks</td> <td>Broken/Damage/Defect</td> <td>Weld</td> <td>Finish</td> </tr> <tr> <td>Crimp/Kink/Ripple/Wave/Twist</td> <td>Incomplete/Unclear Instructions</td> <td>Wrong Stock Pulled</td> <td>Part Lost/Missing</td> </tr> <tr> <td>Marks/Chatter</td> <td>Drill Holes</td> <td>Out of Sequence</td> <td>Misread</td> </tr> <tr> <td>Mislabeled</td> <td>Fit/Function</td> <td>Off-set/Set-up</td> <td></td> </tr> </table> |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                       |  | Pressure/Forced | Contamination | Power Loss/Surge | Positioned Wrong | Bending | Misaligned/off center | Folio/Program | Outside Tolerance | Crushing | BOM/Route | Grain Direction | Drawing | Cracks | Broken/Damage/Defect | Weld | Finish | Crimp/Kink/Ripple/Wave/Twist | Incomplete/Unclear Instructions | Wrong Stock Pulled | Part Lost/Missing | Marks/Chatter | Drill Holes | Out of Sequence | Misread | Mislabeled | Fit/Function | Off-set/Set-up |  |
| Pressure/Forced                                                                                                                                                                                                                                                                                                                                                                     | Contamination                   | Power Loss/Surge                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Positioned Wrong  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                       |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Bending                                                                                                                                                                                                                                                                                                                                                                             | Misaligned/off center           | Folio/Program                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Outside Tolerance |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                       |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Crushing                                                                                                                                                                                                                                                                                                                                                                            | BOM/Route                       | Grain Direction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Drawing           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                       |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Cracks                                                                                                                                                                                                                                                                                                                                                                              | Broken/Damage/Defect            | Weld                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Finish            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                       |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Crimp/Kink/Ripple/Wave/Twist                                                                                                                                                                                                                                                                                                                                                        | Incomplete/Unclear Instructions | Wrong Stock Pulled                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Part Lost/Missing |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                       |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Marks/Chatter                                                                                                                                                                                                                                                                                                                                                                       | Drill Holes                     | Out of Sequence                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Misread           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                       |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Mislabeled                                                                                                                                                                                                                                                                                                                                                                          | Fit/Function                    | Off-set/Set-up                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                       |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |
| Other/Details: _____                                                                                                                                                                                                                                                                                                                                                                |                                 | _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                       |  |                 |               |                  |                  |         |                       |               |                   |          |           |                 |         |        |                      |      |        |                              |                                 |                    |                   |               |             |                 |         |            |              |                |  |

